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AMENDMENTS TO THE CLAIMS:

- 1 I. (Currently Amended) A method for the automatic configuration of a bi-directional
- 2 Internet Protocol (IP) communication device, comprising:
- 3 broadcasting a request <u>from a bi-directional Internet Protocol (IP)</u>
- 4 communication device selected from either a DSL gateway or cable modem for basic
- 5 configuration details for the IP communication device, where said request contains a
- 6 unique bi-directional IP communication device identifier stored in the IP communication
- 7 device and associated with a unique user;
- 8 receiving said basic configuration details <u>including an IP address</u> from a
- 9 server, where said basic configuration details are assigned to said unique user based on
- 10 said unique bi-directional IP communication device identifier; and
- 11 configuring said bi-directional IP communication device with
- said basic configuration details.
- 1 2. (Currently Amended) The method of claim 1, wherein said broadcasting further
- 2 comprises broadcasting said request for basic configuration details, including an said IP
- address, to a Dynamic Host Configuration Protocol (DHCP) server, where
- 4 said bi-directional IP communication device is a Digital Subscriber Line (DSL)
- 5 gateway.
- 1 3. (Currently Amended) The method of claim 2, wherein said receiving comprises
- 2 obtaining an said IP address from said DHCP server.
- 1 4. (Original)The method of claim 1, further comprising transmitting a configuration
- 2 request for additional configuration details.
- 1 5. (Original)The method of claim 4, further comprising receiving said additional
- 2 configuration details specific to said unique user.
- 1 6. (Original)The method of claim 5, further comprising configuring said bi-

- 2 directional IP communication device with said additional configuration details.
- 1 7. (Original)The method of claim 1, further comprising, before said broadcasting
- 2 step, the steps of:
- 3 connecting said bi-directional IP communication device to an analog
- 4 telephone line; and
- 5 powering said bi-directional IP communication device on.
- 1 8. (Original)The method of claim 1, further comprising, before said broadcasting
- 2 step, the step of automatically detecting a DSL communication circuit.
- 1 9. (Original) The method of claim 1, further comprising, before said broadcasting
- 2 step, the step of automatically determining Permanent Virtual Circuit (PVC)
- 3 details for communications between said bi-directional IP communication
- 4 device and a communications network.
- 1 10. (Original) The method of claim 9, wherein said determining comprises the step of
- 2 ascertaining a VPINCI (Virtual Path Identifier/Virtual Channel Identifier) pair
- 3 for said communications.
- 1 11. (Original)The method of claim 1, wherein said broadcasting comprises
- 2 broadcasting a DHCP Discover request.
- 1 12. (Original) The method of claim 1, wherein said receiving comprises acquiring a
- 2 DHCP Offer message from a DHCP server.
- 1 13. (Previously Presented) The method of claim 1, further comprising, prior to said
- 2 configuring step, the steps of:
- 3 sending a DHCP Request message to a DHCP server; and
- 4 receiving a DHCP acknowledge message from said DHCP
- 5 server.

(Original)The method of claim 1, wherein said broadcasting and receiving steps

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2	occur automatically without any communication between said bi-directional IP
3	communication device and a client computer coupled to said bi-directional IP
4	communication device.
*	Communication device.
1	15. (Original)The method of claim 1, further comprising, prior to said configuring
2	step, the steps of:
3	assigning said unique bi-directional IP communication device
4	identifier to said bi-directional IP communication device; and
5	associating said unique bi-directional IP communication device
6	identifier with said unique user.
1	16. (Original)The method of claim 15, further comprising generating a configuration
2	table listing bi-directional-IP communication device identifiers and associated
3	users.
1	17. (Currently Amended)A bi-directional IP communication device, comprising:
2	a Central Processing Unit (CPU);
3	communication circuitry;
4	input/output ports; and
5	a memory containing:
6	a unique bi-directional IP communication device
7	identifier for a DSL gateway or cable modem;
8	instructions for broadcasting a request from the device for basic
9	configuration details for the IP communication device, where said request
10	contains a unique bi-directional IP communication device identifier
11	associated with a unique user;
12	instructions for receiving said basic configuration details including
13	an IP address from a server, where said basic configuration details is
14	assigned to said unique user based on said unique bi-directional IP

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15	communication device identifier; and
16	instructions for configuring said bi-directional IP
17	communication device with said basic configuration details.
1	18. (Currently Amended) The bi-directional IP communication device of claim 17,
2	wherein said instructions for broadcasting further comprise instructions for
3	broadcasting said request for basic configuration details, including an said IP
4	address, to a Dynamic Host Configuration Protocol (DHCP) server, where
5	said bi-directional IP communication device is a Digital Subscriber Line (DSL)
6	gateway.
1	19. (Currently Amended)A computer program product for use in conjunction with a
2	computer system for the automatic configuration of a bi-directional Internet Protocol (IP)
3	communication device, the computer program product comprising a computer
4	readable storage and a computer program stored therein, the computer
5	program comprising:
6	instructions for broadcasting a request from a bi-directional
7	Internet Protocol (IP) communication device selected from either a DSL
8	gateway or cable modem for basic configuration details for the IP
9	communication device, where said request contains a unique bi-directional
10	IP communication device identifier stored in the IP communication device
11	and associated with a unique user;
12	instructions for receiving said basic configuration details including
13	an IP address from a server, where said basic configuration details is
14	assigned to said unique user based on said unique bi-directional IP
15	communication device identifier; and
16	instructions for configuring said bi-directional IP
17	communication device with said basic configuration details.
1	20. (Currently Amended)The computer program product of claim 19, wherein said

2 instructions for broadcasting further comprise instructions for broadcasting said request

- 3 for basic configuration details, including an said IP address, to a Dynamic Host
- 4 Configuration Protocol (DHCP) server, where said bi-directional IP
- 5 communication device is a Digital Subscriber Line (DSL) gateway.
- 1 21. (Previously Presented) The method of claim 11, wherein a configuration table
- 2 listing device identifiers, their associated users, and each user's basic configuration
- 3 details is stored in the server.
- 1. 22. (Currently Amended) A method for the automatic configuration of a bi-directional
- 2 Internet Protocol (IP) communication device, comprising:
- 3 connecting a bi-directional Internet Protocol (IP) communication device
- 4 <u>selected from either a DSL gateway or cable modem</u> to a network, said device
- 5 having a unique device identifier stored therein that is associated at a server with a
- 6 unique user prior to connection;
- 7 broadcasting a request from the IP communication device for basic
- 8 configuration details for the IP communication device over the network to the
- server, where said request contains the unique device identifier;
- 10 receiving said basic configuration details including an IP address from the
- 11 server, where said basic configuration details for the IP communication device are
- assigned to said unique user based on said unique device identifier; and
- 13 configuring said IP communication device with said basic configuration
- 14 details.
- 1 23. (Previously Presented) The method of claim 22, wherein a configuration table
- 2 listing device identifiers, their associated users, and each user's basic configuration
- 3 details is stored in the server.
- 1 24. Cancelled
- 1 25. (Previously Presented) The method of claim 22, further comprising, before said
- 2 broadcasting step, the step of automatically detecting a dial-tone for the internet protocol.

- 1 26. (Currently Amended) A method for the automatic configuration of a bi-directional
 2 Internet Protocol (IP) communication device, comprising:
- 3 providing a bi-directional Internet Protocol (IP) communication device selected
- 4 from either a DSL gateway or cable modem having a unique device identifier stored
- 5 therein;
- associating the device identifier with a user identifier for a unique user of the IP
- 7 communication device;
- 8 providing the IP communication device to the unique user;
- 9 providing the device identifier and the user identifier to an internet service 10 provider (ISP);
- generating a configuration table listing device identifiers, their associated users,
- 12 and each user's basic configuration details including an IP address;
- storing the configuration table in a server;
- connecting the IP communication device to a network at a user site;
- broadcasting a request from the IP communications device for basic configuration
- 16 details for the IP communication device to the server over the network, where said
- 17 request contains the unique device identifier;
- identifying the user's basic configuration details in the configuration table from
- 19 the device identifier;
- transmitting the basic configuration details to the user site IP communications
- 21 device;
- 22 receiving said basic configuration details from the server; and
- configuring said IP communication device with said basic configuration details.
- 1 27. (Previously Presented) The method of claim 26, further comprising, before said
- 2 broadcasting step, the step of automatically detecting a dial-tone for the internet protocol.